

11/20/07  
PART B - FEE(S) TRANSMITTAL

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MORGAN, LEWIS & BOCKIUS LLP  
 1701 Market Street  
 Philadelphia, PA 19103-2921

11/21/2007 FMETEK12 00000021 500310 10812409

01 FC:1501 1440.00 DA  
 02 FC:1504 300.00 DA

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 I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

DANIEL H. GOLUB	(Depositor's name)
<i>D.H.G.</i>	(Signature)
11/19/07	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/812,409	03/29/2004	David Alan Baldwin	53757-5013	1261

TITLE OF INVENTION: SYSTEM AND METHOD FOR PERFORMING SPUTTER ETCHING USING INDEPENDENT ION AND ELECTRON SOURCES AND A SUBSTRATE BIASED WITH AN A-SYMMETRIC BI-POLAR DC PULSE SIGNAL

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$0	\$1700	12/06/2007

EXAMINER	ART UNIT	CLASS-SUBCLASS
MCDONALD, RODNEY GLENN	1753	204-192330

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  
 "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.
2. For printing on the patent front page, list  
 (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  
 (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Morgan, Lewis & Bockius LLP  
 2 \_\_\_\_\_  
 3 \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

*4 Wave, Inc.*

*Sterling VA*

Please check the appropriate assignee category or categories (will not be printed on the patent):  Individual  Corporation or other private group entity  Government

4a. The following fee(s) are submitted:

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- Issue Fee  
 Publication Fee (No small entity discount permitted)  
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- A check is enclosed.  
 Payment by credit card. Form PTO-2038 is attached.  
 The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number 50-0310 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.  b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

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*D.H.G.*

Date 11/19/07

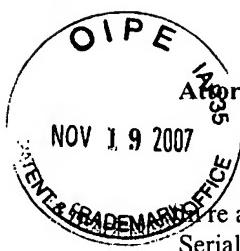
Typed or printed name

*Daniel H. Golub*

Registration No. 33,701

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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Attorney Docket No. 053757-5013

PATENT

NOV 19 2007

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re application of: Baldwin  
Serial No.: 10/812,409  
Filed: March 29, 2004  
For: System and Method For Performing Sputter Etching Using  
Independent Ion and Electron Sources And A Substrate Biased  
With An A-Symmetric Bi-Polar DC Pulse Signal

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Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

TRANSMITTAL OF PAYMENT OF ISSUE FEE (37 C.F.R. § 1.311)

1. Applicant hereby pays the issue fee for the enclosed Issue Fee Transmittal PTOL-85.

2. Issue Fee and Publication Fee:

other than a small entity--fee       \$1,700.00       \$1,000.00

3. Payment of fee:

Enclosed is a check for \$\_\_\_\_\_.  
 Charge Account 50-0310 the sum of \$1,700.00. A duplicate of this request is attached.

4. The Commissioner is hereby authorized to charge any fees due in connection with this submission, or credit any overpayment to Deposit Account No. 50-0310.

Reg. No.: 33,701

  
SIGNATURE OF ATTORNEY

Tel. No.: 215-963-5055

Daniel H. Golub  
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Philadelphia, PA 19103-2921

CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. § 1.10)

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Date of Deposit 11/19/07

I hereby certify that this paper, and the papers and/or fees referred to herein as transmitted, submitted or enclosed, are being deposited with the U.S. Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above and is addressed to Mail Stop Issue Fee, Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Name: Daniel H. Golub

Signature 